

Name \_\_\_\_\_

Date \_\_\_\_\_

**Practice Set 6.6**  
Dividing Polynomials by Binomials

Divide as indicated.

1.  $(x^2 + 3x - 10) \div (x + 5)$  1. \_\_\_\_\_

2.  $(x^3 - 27) \div (x - 3)$  2. \_\_\_\_\_

3.  $(x^2 - 2x) \div (x + 2)$  3. \_\_\_\_\_

4.  $(6x^2 + 2x - 28) \div (3x + 7)$  4. \_\_\_\_\_

5.  $(4x^2 - 6 + 4x^3 - 7x) \div (2x + 3)$  5. \_\_\_\_\_

6.  $(6x^3 + 11x^2 - 4x - 9) \div (3x - 2)$  6. \_\_\_\_\_

7.  $(8x^3 + 30x^2 - 36x - 12) \div (4x - 1)$  7. \_\_\_\_\_

8.  $(x^3 - 13x - 12) \div (x - 4)$  8. \_\_\_\_\_

9.  $(3x^4 + 4 - 10x + 7x^3) \div (3x - 2)$  9. \_\_\_\_\_

10.  $(3x^3 + 20x^2 + 21) \div (x + 7)$  10. \_\_\_\_\_